

Amendments to the Claims:

- 1-10. (Canceled)
11. (New) Apparatus for detecting the location of electrical activity in the wall of a human bladder.
12. (New) Apparatus according to claim 11 and comprising an expandable device adapted for passage through the urethra in a collapsed condition and reversibly expandable when in the bladder.
13. (New) Apparatus according to claim 12 wherein said expandable device has a plurality of detection sites thereon.
14. (New) Apparatus according to claim 13 wherein said detection sites are uniformly distributed on the surface thereof.
15. (New) Apparatus according to claim 14 wherein said expandable device resembles a sphere in the expanded state,
16. (New) Apparatus according to claim 14 wherein said expandable device comprises a cage having a plurality of arcuate arms extending between opposite poles.
17. (New) Apparatus according to claim 12 and including an external telescopic connector whereby relative telescoping movement causes the device to expand and contract on demand.
18. (New) Apparatus according to claim 12 and comprising an inflatable device.
19. (New) Apparatus according to claim 18 wherein said device includes an inflation lumen having an external closure.
20. (New) Apparatus according to claim 12 and further including a fluid lumen adapted to permit filling of the bladder from the exterior.
21. (New) Apparatus according to claim 20 and comprising multiple lumens.

22. (New) Apparatus according to claim 11 and comprising an array of detection sites adapted to detect electrical activity in the wall of the bladder whereby the location of said electrical activity can be determined.

23. (New) Apparatus according to claim 22 wherein said detection sites are uniformly distributed.

24. (New) Apparatus according to claim 12 and further comprising orientation means whereby the orientation of an expandable device in the bladder may be determined from outside the bladder.

25. (New) Apparatus according to claim 12 and further including a lumen adapted to receive a stiff curved guide member for steering of the expandable device.

26. (New) Apparatus according to claim 11 and further including an ablation tool adapted for insertion through the urethra and operable to ablate the internal surface of the bladder wall.

27. (New) Apparatus according to claim 26 wherein the tip of said tool is detectable by position sensing apparatus.

28. (New) Apparatus according to claim 27 wherein the tip of said tool is adapted to be electrically active and wherein said apparatus is adapted to detect said activity.